

ARB'S EARLY ACTION MEASURES TO REDUCE GREENHOUSE GASES

**CAT Public Meeting
June 26, 2007**



Group 1

Discrete Early Actions

(Fully Enforceable by 2010)

Low Carbon Fuel Standard
Restrict High GWP Refrigerants
Landfill Methane Capture

Low Carbon Fuel Standard

- Executive Order S-01-07
- Fuel providers ensure that fuels sold in CA meet a declining GHG standard
- 10-20 MMTCO₂E reductions by 2020



High GWP Refrigerants

- Prohibit DIY recharging of leaky automotive A/C systems
- 1-2 MMTCO₂E reductions by 2020



Landfill Methane Capture



- **Statewide standards for municipal landfills**
- **Improve efficiency and emissions control**
- **Staff collaborating with CIWMB and APCDs**
- **2-4 MMTCO₂E in 2020**

Group 2 Strategies

- 23 measures total
- Organized by ARB hearing date
- ~20 MMTCO₂E reductions by 2020

Group 2 – ARB Hearing in 2008

July	Local Government Protocol
July	Forestry Protocol
July	Small Business Protocol
July	Cool Communities Protocol
July	Methane Digester Protocol
Dec	Smart Way Truck Efficiency
Dec	Port Electrification

Group 2 – ARB Hearing in 2009-10

2009

**Cool Paints for Automobiles
PFC Controls for Semiconductors
MDV Exhaust Standards**

2010

**Tire Inflation Program
Commercial Refrigeration
Oil & Gas Vents/Leaks
HFC Release During MV Service
Alternate Refrigerants for MVs**

Group 2 – ARB Hearing in 2011-12

**2011 Foam HFC Emissions
 Alt Fire Suppression Chemicals**

2012 Pavley MV Regs, next phase

Group 2 – ARB Hearing Date TBD

**Stationary Agricultural Engines
Sulfur Hexafluoride Use
Update TRU Regulation
Truck Stop Electrification
Smog Check Leak Test/Repair**

Group 3

Diesel and Ozone Controls (11)

2007

**Off-road Mobile Sources
Port Trucks
Vessel Speed Reduction
Off-Cycle Driving Conditions
Commercial Harbor Craft
Above Ground Gas Tanks**

2008

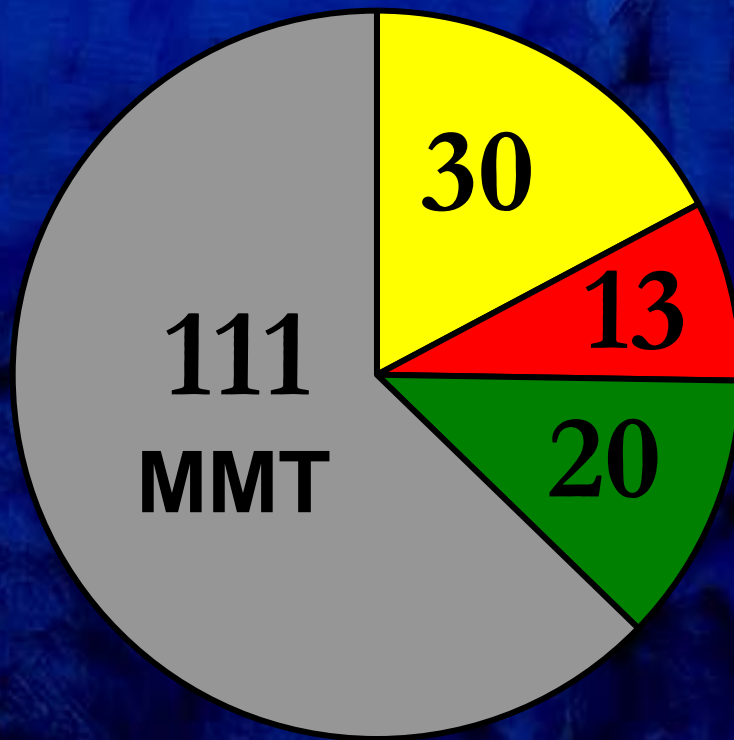
**On-road Trucks
Vessel Main Engines
Portable Outboard Marine Tanks
Gas Dispenser Hose Replacement**

2009

Offroad Mobile (agricultural)

ARB 2020 Emission Reductions

>63 of 174 MMTCO₂E



- Adopted Strategies (AB 1493, SIP)
- Group 1 Strategies (3 discrete early actions)
- Group 2 Strategies (23 add'l early actions)
- Remaining Reductions (scoping plan, CAT)